## In the Claims:

Please cancel claims 41 and 42 without prejudice.

Please amend the claims as follows:

- 1. (Withdrawn) A method of treating a mammal having a disorder of cholesterol metabolism comprising administering to said mammal a therapeutically effective amount of a compound that modulates the biological activity of ABCA1 polypeptide.
- 2. (Withdrawn) The method of claim 1, wherein said biological activity is *in vitro* lipid transport across a membrane.
- 3. (Withdrawn) The method of claim 2, wherein said lipid is a member selected from the group consisting of phospholipid and cholesterol.
- 4. (Withdrawn) The method of claim 2, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 5. (Withdrawn) The method of claim 2, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
- 6. (Withdrawn) The method of claim 1, wherein said biological activity is *in vitro* ion transport across a membrane.
- 7. (Withdrawn) The method of claim 6, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 8. (Withdrawn) The method of claim 6, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.

9. (Withdrawn) The method of claim 1, wherein said biological activity is *in vitro* interleukin-1 transport across a membrane.

- 10. (Withdrawn) The method of claim 9, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 11. (Withdrawn) The method of claim 9, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
- 12. (Withdrawn) The method of claim 1, wherein said biological activity is *in vitro* ATP-hydrolysis.
- 13. (Withdrawn) The method of claim 12, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 14. (Withdrawn) The method of claim 12, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
- 15. (Withdrawn) The method of claim 1, wherein said biological activity is *in vitro* ATP-binding.
- 16. (Withdrawn) The method of claim 15, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 17. (Withdrawn) The method of claim 15, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
  - 18. (Withdrawn) The method of claim 1 wherein said mammal is a mouse.

19. (Withdrawn) The method of claim 1 wherein said mammal is a human.

20. (Withdrawn) The method of claim 1, wherein said mammal has low HDL

cholesterol levels relative to normal.

21. (Withdrawn) The method of claim 20 wherein said mammal is a mouse.

22. (Withdrawn) The method of claim 20 wherein said mammal is a human.

23. (Withdrawn) The method of claim 1 wherein said modulation is an increase in

biological activity.

24. (Currently Amended) A method of treating a <u>human</u> mammal having or at risk

of developing a cardiovascular disease to increase plasma HDL-C in said human

mammal, comprising administering to said mammal a therapeutically effective amount

of a compound that increases by increasing by at least 10% the level of ABC1-

mediated ABC1 lipid transport activity in said human mammal.

25. (Currently Amended) The method of claim 24, wherein risk of said

cardiovascular disease is associated with low plasma HDL-C less than 0.9 mmol/l.

26. (Original) The method of claim 25, wherein said lipid is a member selected

from the group consisting of phospholipid and cholesterol.

27. (Previously Presented) The method of claim 24, wherein said lipid is a

member selected from the group consisting of phospholipid and cholesterol.

28. (Canceled)

29. (Withdrawn) The method of claim 24, wherein said biological activity is in

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vitro ion transport across a membrane.

- 30. (Withdrawn) The method of claim 29, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 31. (Withdrawn) The method of claim 29, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
- 32. (Withdrawn) The method of claim 24, wherein said biological activity is *in vitro* interleukin-1 transport across a membrane.
- 33. (Withdrawn) The method of claim 32, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 34. (Withdrawn) The method of claim 32, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
- 35. (Withdrawn) The method of claim 24, wherein said biological activity is *in vitro* ATP-hydrolysis.
- 36. (Withdrawn) The method of claim 35, wherein said ABCA1 polypeptide comprises the amino acid sequence of SEQ ID NO: 1.
- 37. (Withdrawn) The method of claim 35, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.
- 38. (Withdrawn) The method of claim 24, wherein said biological activity is *in vitro* ATP-binding.
  - 39. (Withdrawn) The method of claim 38, wherein said ABCA1 polypeptide

comprises the amino acid sequence of SEQ ID NO: 1.

40. (Withdrawn) The method of claim 38, wherein said ABCA1 polypeptide comprises amino acids 1-60 of SEQ ID NO: 1.

41-45. (Canceled)

- 46. (Withdrawn) The method of claim 1 wherein said disease is selected from the group consisting of Alzheimer's disease, Niemann-Pick disease, Huntington's disease, x-linked adrenoleukodystrophy, and cancer.
  - 47. (Withdrawn) The method of claim 46 wherein said mammal is a mouse.
  - 48. (Withdrawn) The method of claim 46 wherein said mammal is a human.
- 49. (Original) The method of claim 24, wherein said cardiovascular disease is coronary artery disease, cerebrovascular disease, coronary restenosis, or peripheral vascular disease.
- 50. (Withdrawn) A method of preventing cardiovascular disease in a human, said method comprising administering to said human an expression vector comprising an *ABCA1* polynucleotide operably linked to a promoter, said *ABCA1* polynucleotide encoding an ABCA1 polypeptide having *in vitro* ABCA1 biological activity.
- 51. (Withdrawn) A method of preventing or ameliorating the effects of a disease-causing mutation in an *ABCA1* gene in a human, said method comprising introducing into said human an expression vector comprising a promoter operably linked to an *ABCA1* polynucleotide encoding an ABCA1 polypeptide having *in vitro* ABCA1 biological activity.

52. (Withdrawn) A method of treating or preventing cardiovascular disease in an animal, said method comprising administering to said animal a compound that mimics the activity of wild-type ABCA1.

53. (Withdrawn) The method of claim 52, wherein said animal is a human.

54. (Withdrawn) The method of claim 52 wherein said compound is a member selected from a group consisting of protein kinase A, protein kinase C, vanadate, okadaic acid, IBMX1, fibrates, γ-estradiol, arachidonic acid derivatives, WY-14,643, LTB4, 8(s)HETE, thiozolidinedione antidiabetic drugs, 9-HODE, 13-HODE, nicotinic acid, HMG CoA reductase inhibitors, and compounds that increase PPAR-mediated ABCA1 expression.

55. (Withdrawn) The method of claim 52, wherein said cardiovascular disease is coronary artery disease, cerebrovascular disease, coronary restenosis, or peripheral vascular disease.

56. (Withdrawn) The method of claim 53 wherein said compound is a member selected from a group consisting of protein kinase A, protein kinase C, vanadate, okadaic acid, IBMX1, fibrates, γ-estradiol, arachidonic acid derivatives, WY-14,643, LTB4, 8(s)HETE, thiozolidinedione antidiabetic drugs, 9-HODE, 13-HODE, nicotinic acid, HMG CoA reductase inhibitors, and compounds that increase PPAR-mediated ABCA1 expression.

- 57. (Currently Amended) The method of claim 25, wherein said <u>human mammal</u> has said\_cardiovascular disease.
- 58. (Previously Presented) The method of claim 57, wherein said cardiovascular disease is coronary artery disease, cerebrovascular disease, coronary restenosis, or peripheral vascular disease.

59. (Currently Amended) The method of claim 25, wherein said <u>human mammal</u> is at risk of developing said cardiovascular disease.

60. (Previously Presented) The method of claim 59, wherein said cardiovascular disease is coronary artery disease, cerebrovascular disease, coronary restenosis, or peripheral vascular disease.

61. (Previously Presented) The method of claim 58, wherein said cardiovascular disease is coronary artery disease.

62. (Previously Presented) The method of claim 57, wherein said cardiovascular disease is coronary artery disease.

63. (New) The method of claim 24, wherein said increase in ABC1 lipid-transport activity is at least 25%.

64. (New) The method of claim 24, wherein said increase in ABC1 lipid-transport activity is at least 50%.

65. (New) The method of claim 24, wherein said plasma HDL-C is increased by at least 25%.

66. (New) The method of claim 24, wherein said plasma HDL-C is increased by at least 50%.